

Patent Abstracts of Japan

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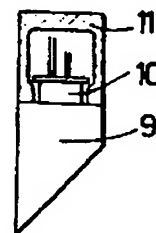
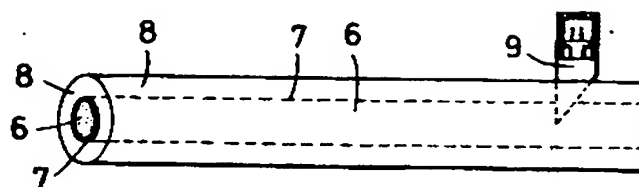
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APPLICANT : MATSUSHITA ELECTRIC WORKS LTD;

INVENTOR : MIYASHITA HITOSHI;

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TITLE : OPTICAL FIBER BRANCHING DEVICE



ABSTRACT : PURPOSE: To provide a light branch output part or light input part at an optional position of a plastic optical fiber by fitting a light emitting element or photodetecting element in contact with the top surface of a wedge made of wedgelike transparent glass having an acute angle atop.

CONSTITUTION: The transparent wedge 9 has the acute angle atop and on its top surface, the light emitting element or photodetecting element 10 is fitted in a protection cover 11. The optical fiber 3, on the other hand, is made of plastics having a relatively large core 6 and consists of the core 6, a clad 7, and a sheath 8 for protection. When the transparent wedge 9 is pressed in the optical fiber 3 from the sheath 8, the tip of the wedge 9 enters the clad 7 and core 6 successively to guide part of light which travels in the core 6 out of the fiber through the wedge 9. The guided-out amount of the light is controlled by adjusting the insertion extent of the wedge 9 into the core 6.

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